

SURVIVAL SCRAPBOOK : DISSERTATION.
SYNOPSIS OF ARGUMENT.

"Critiquing our present society through my
intuitive experience and ideologically I feel
that not only should there be research and develop-
ment for an alternative society but also that from
what we already know, there exists the possibility
of living somehow else, starting even now; we should
look to the fundamentals of our living - our basic
life supports.

Information should be collected, distributed and
experiments made in reality.

The information should be produced in a form relevant
to an alternative view of information theory and to
stimulate practical experiments".

very unclear

another sentence
needed.

dissemination

STEFAN SECELKUN. : 1972.

NOTE: This dissertation should be read in conjunction
with the student entitled, "Theoretical approach to
theoretical and practical approach to the theoretical

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NOTE: This dissertation should be read in conjunction with the studies entitled survival scrapbook 1 Shelter and Survival Scrapbook 2. Food.

INTRODUCTION

When ~~one~~^{you} is wanting to reexamine the fundamental concepts of a broad discipline like architecture, where do ~~one~~^{you} start?

Architecture has always grown from the existing culture. It has grown from the political, aesthetic and spiritual precepts of that culture. So it would seem that a study of the fundamentals would be a study of the political, aesthetic and spiritual realities of the existing culture in an attempt to discern those points from which architecture arises. However there is something that is more basic to architecture than such a far ranging theoretical critique and that is the part of the architectural discipline that derives its form from the subconscious urges in every people who build to make their buildings pleasing to the senses and functionally workable at the same time.

At this stage some comments about what my understanding of what architecture is, are necessary. Taking it on one extreme only to be the selfconscious design of monumental art works by a professional body of men who hold an esoteric knowledge not closely related to the population as a whole, then buildings arising from the culture of the people for their everyday needs is not architecture.

I consider this to be a narrow view.

Architecture as a popular subject, including all who mould the built or landscaped parts of our environment, is a broader and more satisfying concept. It is one held by many renowned architects who have advised their students to study such fundamental expression.

Let me quote two of the all time greats as examples.

"The true basis for any serious study of the art of architecture lies with those indigenous more humble buildings everywhere that are to architecture what folklore is to literature or folksong to music and with which academic architects are seldom concerned

These many folk structures are of the soil, natural. Although often slight their virtue is intimately related to the environment and to the heart life of the people. Functions are usually truthfully conceived and rendered invariably with natural feeling. Results are often beautiful and always instructive"

Frank Lloyd Wright.

The Sovereignty of the Individual.

"Architecture today is no longer conscious of its own beginnings"

Corbusier

Towards a new architecture.

Such study then must be relevant to architecture in its broadest definition. Architecture as something to be known and controlled by everyone rather than an elitist group of professionals and their following critics and admirers. Fundamentally reexamine with a broad band of the public, participating in the most effective manner possible.

The questions of research and presentation/
communication are one. The manner in which the
research is made will determine the product.
It is action that must follow the theory and
the theoretical analysis should lead to practical
suggestions (ancient chinese maxim.) so the
presentation of any study will be most effective
if it can suggest practical actions to people
who are in a position to be able to take such
actions. The reason such emphasis is placed
on action is that experience of a real environmental
situation is the ^{surely the best} ~~only~~ way to fully know, understand
and ultimately change that situation.

The part of the population that can take things
to such practical extremes is that section
commonly known as discontented youth; or those
of like mind (if not age) who can understand
such experimental application.

Research should therefore be directed towards
those who can make most effective use of it now.
This does not mean that the study is not relevant
to the population as a whole but only that research
on the basic real levels can only be done by
those who are physically able and mentally into
it. The results of such experiments can be critically
examined and reaffirmed on a broader scale. An
example of how this process works may be seen
in the communes of the western world from whose
successes and failures, possibilities of a better

alternative life style might be seen by people
as a whole.

It was stated in the first paragraph that a critical
reassessment would need a broad cultural critique.
Although I have tried to avoid detailed theoretical
and ideological digressions of which I am not
equipped to be usefully capable, certain biases
are unavoidable. Everyone has their own cultural
viewpoint which becomes evident in any action
they make. Much of the following attempts to
clarify my biases and give my argument some
rational, rather than a purely intuitive, basis.

Those who are looking for an alternative to our
society as it now exists. The characteristics
of society that lead us to believe that a
change is urgently needed, are discussed in the next
section.

From these considerations arise for a study group
and more rationalized than previous groups in
the investigation proposed. Guided on an
intuitive level by an urge to supply a true basis
of thinking that would self evidently lead
and counsel to all people and yet not lacking.
The next section states by name and discusses
some of them.

The original idea of doing this work was not wholly the result of a logically or literally progressed ideology but arose from many experiences, interests and diverse information that has come to me as a generalist design student searching for a radical and wholistic approach to architectural design. The first section 1) background discusses these interests.

The aims

As well as ~~the~~ origins ~~the aim~~ of the scrap book are multi various and unspecific. Talking generally it is possible to place its aims in a single context by saying that they all intend to service those who are looking for an alternative to our society as it now exists. The characteristics of society that lead me to believe reappraisal is urgently needed, are discussed in the next section contextual critiques.

From these considerations aims for a study grew. And were rationalised into various points as the investigation proceeded. Guided on an intuitive level by an urge to supply a true view of something that seems self evidently basic and common to all people and yet was lacking. The next section states my aims and discusses each of them.

As has already been mentioned method cannot be

separated from aim with a truly wholistic study.

The process is a unity from concept to feedback

and learning. The next section briefly discusses

some of the more formative aspects of the processes

involved.

Finally there is a concluding section and biblio-

graphy(~~referred to in the text by number~~)

Information and control of everyday life.

Alternative forms of life support.

Resources and channels within our society
for alternative development.

Form of basis for domestic architectural
design.

BACKGROUND Part 1.

These are the areas of interest from which the study grew. Some roots and underlying reasons. Topics Discussed are; -

- * Public Facilities that are freely available the implications of such servicing.
- * The vernacular and self - build What is the architect's place.
- * Bio-physical inter-relatedness of all things
- * Information and control in everyday life.
- * Alternative forms of life support.
- * Resources and channels within our society for alternative development.
- * Lack of basis for domestic architectural design.

In the United States of America one is quite happy for something that supplies in the material blood bank. A comparative study of our blood supply system and the American one was carried out by Winston who found that the quality and quantity of the English blood bank was far superior than that of the American. This was attributed to the fact that with the American system poor people have blood and, for the reason or another, not of very good quality could be about previous illness and so on and that they blood bank is accepted and they should get the money that they need. The only reason system

Public facilities that are freely available

The implication of such servicing

When public services are provided free they often work well, even within the context of a competitive rather than co operative society. Such examples of distribution without barriers of money or barter lead me to conclude that it is not idealistic to work for a system in which the majority of services are available freely to those who have need of them. Examples of such services that operate now are, ——— libraries, beaches, public toilets, parts of the health service, museums and galleries, street lighting, bicycle riding, roads and pathways, the blood donation, parks, and gardens, drinking water fountains and so on.

In the United States of America one is paid money for donating blood supplies to the national blood bank. A comparative study of our blood donor system and the American one was carried out by Titmuss who found that the quality and quantity of the English blood bank was far greater than that of the American. This was attributed to the fact that with the American system poor people whose blood was, for one reason or another, not of very good quality would lie about previous illness and so on so that their blood would be accepted and they would get the money that they needed. The only reward system

Walk around a town
for a day and expand
this.

get the details of this
from Chris Hargreaves.

that operates in England, apart from the customary tea, biscuits and hour off work, is the abstract one of a feeling that one is contributing to something useful in society. - Something that everybody understands they may need to use in the future sometime.

The implications of such findings are that people in a situation of sufficient supply will act in a self organising fashion if a suitable network and rich information services are available.

district. Almost invariably the vernacular building life will take the lead and the people will build. Even obviously ugly buildings of this type have a feeling of belonging that is comforting. Most of these adaptable buildings were planned without architects or other professional specialists and many of them are far more elegant and spacious than the average suburban built of today. For example the three and four roomed cottages built in the 18th and 19th centuries are still in the water and are even in the 20th century more comfortable than the 11th century brick walls.

details of red and
brown brickwork

The people who built these dwellings were most usually very close to the land in the locality and so well aware of the potentials of locally

available materials. Practice of farmers and others
~~Notes - Project Free London, list of others.~~
~~Implications, that people with sufficient~~
~~for survival will act as a self regulating~~
~~system.~~

An admiration of the vernacular aesthetic,
with relation to traditional building forms
and modern self-built shanties and their like.
~~How, the architect can participate in this.~~
.....

Britain has a complex geology with many kinds
of rock. This gives rise to a variety of
building material which in turn gave way to a
rich vocabulary of traditional building forms
derived from the most suitable materials of that
district. Almost invariably the vernacular building
fits well into the landscape and feels good.
Even obviously ugly buildings of this type have
a feeling of belonging that is comforting. Most
of these admirable buildings were planned without
architects of outside professional specialists
and many of them out perform the average speculatively
built ^{architect designed} chalet of today. For example the thick
mud walls of a cornish cob cottage retain heat
in the winter and are cool in the summer to a
much greater extent than an 11½" cavity brick
wall.

← details of radiant
heat factor in here

The people who built these dwellings would most
usually work closely with the land in the locality
and be well aware of the potentials of locally
available materials. Practice of forming shelters
from such materials would be obtained in the

making of sheds and the like for agricultural and horticultural purposes, this practice is still to be seen on allotments nowadays where the allotment holder puts up stores of all kinds of locally available materials.

A recent experience that I had which ties in closely with these is the discovery of a shanty village just outside Overton near Newcastle in County Durham. There were nearly one hundred houses all built by ^{various} people from all kinds of common materials. Many were based on a structure that was once mobile, such as the old type of fairground caravan. These had been extended in all manner of ways, patios, verandas, 'leantos', solars, and so on had been added. The range of forms and coloursschemes that had been devised was truly extraordinary and gave me a great deal of faith in the ability of modern man to fashion his house with as much skill and arts as people of old.

examples — shepperton, swansea valleys.

p.s. A small selection of colour slides showing this place is available on loan from the AA slide library.

Inter relatedness of all things. Ecological awareness. How it is useless (or at least dangerous) to study one discrete subject i.e. fundamental shelter) on its own. (out of context.)

.....
Rigid categories can only lead to conflict in area for which the category does not hold completely true. Categories are artificially constructed groupings of things that help us understand the world and communication with others. So categories as an artificial aid should be used when they are useful.

Architecture arises from the construction of buildings for various purposes. The buildings are intimately connected with their purpose and in fact until modern times ~~is~~ intimately connected with its local eco system. This when looking at buildings on a fundamental level it is important to explore adjacent phenomena.

This feeling of interrelatedness is not easy to communicate in words and at one level it is almost a spiritual faith. The buddhist ~~writures~~ articulate this concept most clearly and it has re-emerged in recent years from the study of ecology where it can be seen in more practical ways. A change in one part of the world has repercussions throughout.

The role of any specialist is only a vehicle to be used as convenient and it always seemed dangerous to regard architecture as something separate from life as a whole, which is talked

about in an architectural jargon. What seems to me to be more worthy of lifelong pursuit is an architecture that is derived from the mores of everyday life. An architecture that belongs to people because it is produced by them and controlled by them. I see the role of the 'architect' as a stimulator and experimenter, explorer and inspector. Someone able to develop possible forms and techniques farther and farther.

is surely the level of technology. It is well known how everyone built his own dwelling in the old days and if he didn't do the job completely himself then it was a local craftsman who did. If the level of technology is designed to minimize the need for specialization for its own sake and maintenance, then the technology as a whole may take part in the operation of the technology. The division of labour and knowledge may be reduced. Labour and information would ideally have the following characteristics.

1. Flexibility during essential changes and after technical innovations or cultural revolution.
2. Possibility for individuals to do work they enjoy and to learn and to develop in their work.
3. Maintenance of sufficient production.
4. Sharing of means and material work.

People having the possibility of having more control/say in their everyday lives, with particular regard to information.

.....

Could people handle the information necessary to comprehend and gain control of their everyday life or is it necessary to have specialists and experts to interpret our everyday needs in terms of our technology? The critical question here is surely the level of technology. It is well known how everyone built his own dwelling in the old days and if he didn't do the job completely himself then it was a local craftsman who did. If the level of technology is designed to minimise the need for specialisation for its use and maintenance, then the community as a whole may take part in the operation of the technology. The division of labour and knowledge may be reduced. Labour and information would ideally have the following characteristics.

1. flexibility during seasonal changes and after technical innovations or cultural reorientation.
2. Possibility for individuals to do work they enjoy most of the time and be creatively involved in their work.
3. Maintenance of sufficient production.
4. Sharing of chores and unpopular work.

and the degree of political responsibility

with a political revolution

0 fails

The information distribution involved here is not at all intently complex as it at first might seem. The basis is the support of every day life functions. The information required so that people might render themselves useful within these functions, is not large compared with the complexity of an average real task (e.g. getting across a city) and the numerous facts and figures learnt off by heart during the usual 10 year minimum schooling period. The skills which people would acquire might cover such areas as.

Shelter building.

Food growing, rearing, gathering and hunting food processing.

Utensil and tool manufacture.

Simple basic workshop practice.

Information systems.

Organisation and managerial systems.

Fire/heating and ventilation ^{energy} management.

Medicine.

These would not be distinctly separated areas but interlocking. Thus when study shelter, information handling, organisation and self management, and its relation to food and all sheltered activities would be considered.

It may be seen that information is the key factor in the evolution of such alternative communities. Information is not just news, facts and figures but all the influences, communications, understandings and relationships which link society.

Complex systems in dynamic equilibrium are characterised by a rich flow of information. Thus a systems 'capacity to process information in a variety of ways will define its dynamic stability. This implies an information network with many linkage and no isolated parts.

A stable community will have much information movement to which any one individual may have very little knowledge. After some time these movements of information become evident as social cultural processes which both effect and take shape from the behaviour of individuals, and their relationship with the environment.

These processes serve to make the community responsive to wholistic changes, as a channel for co-ordinative processes on different time scales.

Information produced before such network based society comes into being will act as a symbolic model of the processes involved and might if constructed well catalyse understanding of the novel technologies and always excited me. It is potential of such a situation and eventually only recently that I have seen to be disillusioned precipitate action towards change by small groups who are able to harness the necessary resources. I have seen this in the past, in the 1960s, in the 1970s, and in the 1980s. It is a process of discovery, of course, as the novelty of this and disadvantages become evident in practice, and because there that interesting things are being a fine structure is not as simple a process as one of love and invention. There have been a million and more ideas and inventions in or out of fields of study in the past millennium. To have a vast store of this treasure but to have not found how to use it is a tragedy. It's not saying that invention is bad but the right application of the finest technology and wisdom that we have developed is what is most important. We are capable of so much more, of providing good living conditions for everyone on the earth. I think we should all of people feeling well, safe, sheltered, and in control of their lives would provide a most creative potential that they could channel in anything.

What forms of shelter and food production
are available either novel or traditional to
a person/group reforming their culture. The
.....
Novel techniques had always excited me. It is
only recently that I have come to be disillusioned
with innovation for its own sake. To the naive,
novelty seems to offer hope, to promise better
things; but usually, of course, as the novelty
wears thin and disadvantages become evident in
practice, one becomes aware that improving things
or making a fine structure is not as simple
a process as one of idea and invention.
There have been a million and more ideas
and inventions in as many fields of study in
the past millennium. We have a vast store of
this treasure but we have not learnt how to use
it best. I'm not saying that invention is bad
but the right application of the finest technology
and ideology that we have developed ~~up to~~ to
this date is what is most important. We are
capable if we did this, of providing good living
conditions for everyone on the earth. A whole
world full of people feeling well, fed, sheltered,
and in control of their lives would provide so
much creative potential that they could almost
do anything.

Resources and channels within our society for
alternative developments.
.....

The style and technique of our present life support
processes is controlled by a complex codified
set of restraints such as planning permission,
health regulation, property law and so on.

To discover in what areas and in what conditions
one is allowed to experiment with alternative life
styles these restraints must be studied.

These are not just a simple matter of good and
evil but are complexly derived from the characteristics
of the existing culture in order to protect and
conserve it.

An example of an area for experiment with the
Law is squatting. Until the efforts of an amateur
lawyer Ron Bailey a few years ago little was known
about squatters rights. As it happens English
law to some exactly unmeasured extent allows empty
houses to be squatted temporarily without first
getting the landlords consent. There are now
approximately one thousand homeless squatting
in London, experimenting in all sorts of ways
with self help methods of renovating and servicing
derelict houses. Most of them in the Camden area.

Ignorance^{of} the legalities surrounding many fundamental
living issues seem hopelessly restrictive; but when you look
into it there are many things possible if a knowledge
of the law is gained so that you don't bark up the
wrong tree (i.e illegal)

A feeling that there was a lack of a solid basis
for the architectural design of domestic buildings
.....

Having studied architecture for three years at
college and for one year in practice I felt somewhat
disappointed. In some very basic way my knowledge
of what I was doing was unfounded.

Although I had learned many facts and theories
about the external appearance, internal design
and structural workings of buildings, I had little
idea about why I was doing this, what the whole
concept of a building was about and why people
needed them. Now as Rappaport has pointed out,
the need for a building perhaps did not arise
from the need for shelter and at least the two
cannot be taken as synonymous. However, most
of the buildings existing in the world appear
to be used as shelters of some kind. So what
was this need for shelter?

Obviously it was bound up with the whole of
basic physical and physiological needs of
surviving on the earth. So I decided that one
thing I should study was 'basic life supports'.

The first question to answer was what consisted
of man's basic survival needs. Now, in a
temperate region such as this the first thing
man will die of exposed to survival conditions
if we for the moment take air for granted, is

CONSERVATION CHALLENGES

loss of body heat, hypothermia. So obviously conservation of the body heat and 'body comfort' came first. So the first part of my study looked at these things under the general heading of 'shelter'. The next most important requirements are water, then food. So the question of nourishment comes next (in which we might include the need for air). Now with these things man can survive but to develop from the animal-like existence he must use his gift for creating tools to produce energy to develop his needs. It became obvious very soon that this was not a simple category at all, so I limited myself to the use of energy as physical power. How can we fulfill these needs on the most basic and direct personal and group level. It became clear at this stage after a few short expeditions to find out what was available on this subject, that nothing much was. The information seemed scattered widely around.

CONTEXTUAL CRITIQUES

Alternative? Alternative to what?
Why should we need it? Here follow
some of the reasons why I consider
it necessary.
This includes sections on

-
- * Modes of organisation and administration
- * High energy consumption, the dangers inherent.
- * Value relating to selling power is it a suitable economic.
- * Mono cultural tendencies.
- * Cultural enforcement.
- * Relate to the earth!
- * Non-Renewable Resource Conservation.

Modes of organisation and administration.

Our society is characterised at the present time by a dominance of pyramidal forms of organisation. Thus decisions affecting many at the base are taken by a small number of controllers at the top. This sort of organisation involves much communication between top and base if it is not to become a dictatorial form of organisation. Because the communication has to be sifted as it moves through the pyramid so that it is available in a comprehensive form to the controllers, bureaucracy tends to develop. i.e. speed of communication slows up, mistakes multiply, records increase, paper work becomes complex. To avoid stagnation because of these administrative difficulties there are attempts at improving the administrative efficiency which usually involve simplification and centralisation.

but These characteristics lessen the responsiveness of the organisation to environmental changes and reduce the effective control of the base. There are forms of organisation that avoid these difficulties and would seem more relevant to us especially in a time of accelerating change. ?

These are known as networks. In this form of organisation spread out groups have a great deal of autonomy but have many linkages with each other.

John MacEwan a computer programmer describes the characteristics of a network: "Here we have a system of large variety sufficient to cope with a complex, unpredictable environment. Its characteristics are changing structure, modifying itself under continual feedback from the environment, exhibiting redundancy of potential ? command and involving complex interlocking control structures. Learning and decision making are distributed throughout the system, denser perhaps in some areas than others".

An illustration how networks organisations might allow self government can be made in discussing how to stabilise the population.

If society as a whole accepts that a low growth or stable population is necessary, agreement on restrictions are part of the sophisticated information system through which concensus is achieved.

Customary primitive societies self regulated their population on a community level. A community with this capacity would be truly self organising. Every member makes small adjustments to his own behaviour with regard to the behaviour of others, but it is impossible to identify the behaviour of the whole system with any of its parts. This could happen through the use of symbols such

as the wearing of some differentiating dress or garment by pregnant women. The point is that regardless of their conceptual systems the ? individuals of community should be capable of perceiving that population size effects the whole range of activities and behaviour patterns and in this sense children belong to the whole community.

This kind of control could work as regards planning for the built world, and food production. It is within this kind of information rich political ~~and~~ context that I see the full potential of an exploration of our basic needs developing with the participation of everyone. Until such systems become possible experiments must be elitist rather than wholistically real *at least to some extent.*

centralised because of the necessity for economic efficiency. Greater concentrations of power in single places inevitably lend themselves to inhuman scale, lack of control by the local people and danger of catastrophe.

The energy industry like all other businesses has a vested interest in encouraging continued expansion of consumption.

The demand for electrical power has doubled in the U.S.A. every decade since 1940. At this growth rate production of energy by traditional fossil burning fuel methods will produce an unimaginable level of atmospheric pollution unless we speed

High Energy Level/Consumption
the attendant dangers of a hurried and little

The Energy consumption of western industrial society is not only high at present but is spiralling higher and higher.

Primitive agricultural per capital energy consumption

	10,000 K,cal per day
Modern " " " " " "	25,000 K,cal per day
Industrial Revolution Britain "	70,000 K,cal per day
U.S.A. 1970 " " " " " "	230,000 K,cal per day

High energy production techniques almost invariably produce high pollution levels, if you take the term pollution as being effective in the aesthetic realm and also applicable to the quality of life.

This is because of the centralist nature of our industrial organisation, centralised because of ~~the centralist nature of our industrialist organisation,~~ centralised because of the necessity for economics

efficiency, Greater concentrations of power in single places inevitably lend themselves to inhuman scale, lack of control by the local people and danger of catastrophe.

The energy industry like all other business has a vested interest in encouraging continued expansion of consumption.

The demand for electrical power has doubled in the U.S.A every decade since 1940. At this growth rate production of energy by traditional fossil burning fuel methods will produce an unimaginable level of atmospheric pollution whilst if we speed

up the atomic reactor programme, we will have the attendant dangers of a hurried and little tested but highly dangerous process. The only answer seems to be stabilise, reduce our energy consumption, decentralise. There is little justification for needing such a high growth rate; nobody would believe that the standard of living has also doubled every decade since 1940. Small scale localised, do it yourself technologies although not the most simply efficient. (i.e. energy used to production gained) are certainly the most stable, responsive and non pollutive. They may also take advantage of localised conditions and integrate closely with the local eco systems, to be the most efficient wholistically.

is the deepest needs and aspirations of people; its play is for a fast pace; short sighted it will even profit from processes that are poisoning the whole planet. The people is exhausted, but the people don't know. That is necessary is, for us to develop as conscious order that relates more closely to needs, is planned in a larger term and does not abstract information flow by the nature of its self interest.

Money Economy. Value relates to selling power
.....

But surely, even taking this to be so, it is
Commercialism, in its contemporary capitalist
sense, insidiously destroys the true values of
things and services as they relate to our needs.
It is not need but desire that commerce fulfills.
The whims of fashion shape peoples desires.
Fashion is at best an elitist response to changing
conditions and at worst the robot performer of
the advertising industry. Advertising is controlled
by profit. Profit makes wealth and, as we all
know, six percent of the people own 80% of the
wealth.

Commercialists will sell anything that people
will snap up in ignorance if it gives them a fat
profit. Commercialism does not interest itself
in the deepest needs and aspirations of people,
its play is for a fast buck; short sighted it
will even profit from processes that are poisoning
the whole planet. The people in commerce know
but the people don't know.

What is necessary is for us to develop an economic
system that relates more closely to needs, is
planned in a larger term and does not obstruct
information flow by the nature of its self interest.

You may well say that man is naturally selfish
but surely, even taking this to be so, it is
foolish to have a system which reinforces this
characteristic and allows one man to exploit
another over a wide area. The key to this
change is information. People that are well
informed about the possibilities open to them
and the effects and implications of these pos-
sibilities will choose with their own survival
as one of their foremost criteria. They
will naturally be self organising.

I would suggest that here is a principle that
is all to common with 'technological progress'.
Efficiency is improved at the expense of quality
of experience.

With food a universal improvement in experience,
is evident. Your grandfather might remember
having food, like with plants from common hedge
down and there are berries, nuts and roots growing
wild in England with the most extraordinary
beautiful qualities which most people have never
even tasted let alone gathered for themselves.

Mono cultural Tendency.

The old open fire had its disadvantages of draughts, danger, localised heat, smoke, mess, deliveries of fuel, and its advantages of flicker, smell, dancing shadows, ritual, visual beauty, air charges.

A modern underflow heating system has few advantages or disadvantages like this, it just supplies an even heat; you soon forget about it.

The open fire, the primitive technology, provides a rich and subtly varying experience that relates closely to fundamental life processes, whilst with the modern underfloor heating you soon forget about it.

I would suggest that here is a principle that is all too common with 'technological progress'. Efficiency is improved at the expense of quality of experience.

With food a similar impoverishment in experience, is evident. Your grandmother might remember curing family ills with plants from common hedge haws and there are berries, nuts and roots growing wild in England with the most extraordinary beautiful qualities which most people have never even tasted let alone gathered for themselves.

and a cultural that is nationalist and omni-present rather than responsive to the local ecosystem and adaptive.

Cultural Enforcement

666.....

The importance our society places in gaining a cultural monopoly may be shown by quoting an example of a fringe culture that attempts to exist with the dominant culture without developing the defences of a ghetto and how it is put down. The minority group known as travellers and gypsies have always been persecuted but never more effectively than in the present day.

The Government Report called gypsies and other travellers. HMSO 1967. admits that the gypsy type of nomadic lifestyle has, since the war been virtually outlawed in England. Special sites that have been provided are insensitively planned and are seen as a temporary measure to settle travellers before they can be moved to an ordinary house.

Quoting from the government report.

"The Gypsy Council have put this (the enforcement question) more forcibly sometimes we just stop somewhere in the morning to have breakfast. The police come along and make us move on; they take us to the end of their beat and there is another lot who take us to the end of their beat and so it goes on till we are run into the next country At times like that we can't make a living; we can't wash; we get no change even to cook and eat. This is hell on earth; the worst kind of police state and not at all the sort of fair play Englishmen like to bring about".

This is another aspect of the monocultural tendency of our society; cultural control by brute force rather than by the more subtle and locally responsive mechanisms which would operate with the dispersed controller of network organisation.

Little relation to soil (NATURE)

.....

It would seem probable that the human race is moving, gradually and chaotically away from a basis in the soil. Moving irreversibly and without consciousness or foresight towards a situation in which it must develop and sustain its existence by artificially manufactured means. Leading ecologists believe that the world eco-systems will breakdown within the next thirty years and the biosphere as we know it will rapidly end. The signs of this trend are irrefutable. The cause of this, lie in the breakdown of societies cultural integration and close involvement with the natural rythms of plant growth and seasonal change; from whence its existence is based. The profit orientation of industrialisation and the subsequent subordination of the working man under an increasingly bureaucratic political power structure, lead to a 'short term' view and isolation of the individual. The old folk cultures fell to ruin as profiteering mechanisations crushed its subtle relationships with the environment. The traditional mass cultures were ignored if they did not give quick and concise economic or scientific self justification.

Therefore instead of a gradual development and integration of the new energy forms with the old; we entered an age of technological chaos. Due mainly to the beneficial effects of scientific medical progress the world population accelerated at an unprecedented and alarming rate, which lead to attempts to feed more and more people, whilst paying increasingly less attention to the land. This necessitated the artificial stimulation of plant growth. The soil bio-structure was unbalanced and is becoming barren in many areas. If the process of rising population and rape of the earth continues without any large scale development of alternative systems of survival, most of humanity must starve by the beginning of the next century. Whether the survivors of the cataclysm develop an artificial life support system or an incredible global change of consciousness saves the earth, it is important that the culture that develops in such a situation is aware of its landscape. Its basis and fundamental substance. Whether this landscape consists of sun, wind, water, earth, and organism or of the atomic reactor and chemically synthesised nutritional tablets or a harmonious fusion of both, a clear expression of the awareness and involvement with this basis in its common cultural evolution is essential.

"It is a question of relationship. We must get back into relation, vivid and nourishing relation to the cosmos and the universe. The way is through daily ritual and the re-awakening. We must once more practice the ritual of dawn and noon and sunset, the ritual of the kindling fire and pouring water, the ritual of the first breath and the last. This is an affair of the individual and household, a ritual of day. The ritual of the moon in her phases, of the morning star and the evening star is for men and women separate. Then the ritual of the seasons, with the Drama and Passion of the soul embodied in procession and dances; this is for the community, an act of men and women, a whole community in togetherness. And the ritual of the great events in the year, of stars, for nature and whole people. To these rituals we must return. Or we must evolve them to suit our needs. For truth is we are perishing for lack of fulfillment of our greater needs; we are cut off from the great sources of our inward nourishment and renewal, sources which flow eternally in the universe. Vitally the human race is dying. It is like a great uprooted tree, with its roots in the air. We must plant ourselves again in the universe."

A Propos Lady Chatterly's Lover.

D.H. Lawrence London 1930.

Use of Non-renewable resources in a manner that
does not maximise their potential

.....

Culture is its essential part to produce more and

The high energy consumption industry uses non
renewable resources in the long term hope
(rarely discussed) that by the time they
run out. (very soon for such things as oil and
copper) other things will be found to replace
them. This implies a great deal of faith in
the synthetic industry or a haphazard change
in life styles. The further one progresses from
natural systems the more complex are the impli-
cations of changes that such synthetic materials
have on the environment. Due to its great variance
and network type organisation nature has a great
deal of resilience in the face of change or
disaster. Synthetic systems are greatly simplified
and are much more vulnerable in themselves; and
because they have been produced quickly, rather
than evolved over a great number of years, their
impact on other systems within which they exist
is little known.

The point here is that we should be very careful
about conserving our biosphere as even if we
prefer the plastic life style we are not at all
certain as yet if it will work safely for a long period.

The use of non renewable resources in this 'living dangerously' manner is typical of our technological culture in its maniacal rush to produce more and 'progress' to greater technological peaks without due consideration of what is needed. It is often true that a small amount of high technology will make a nature based technology go much farther. For example the possibilities of wood are vastly increased by the uses of nails, glue, saws, etc. What is needed is an awareness of the dangers of rushing too fast with technology progress built into our criteria, so that we can decide what materials to use and how we are to work them.

Part 3. Some Positive aims.

- * To stimulate interest in basic Life Supports.
- * To suggest ecological sound production techniques
- * To use an information retrieval system that is a model of its objectives.
- * To give an idea of the complexity and costs. involved wherever possible.
- * Not for passive consumption.
- * To avoid premature analysis
- * To provide the beginnings (implied) of an exploration of basic physical survival needs.

To stimulate interest in shelter forms and techniques that are ecologically sound, food productions techniques other than those available within our present culture.
.....

The proposal of shelter and food production techniques that can actually be operated now by ordinary people is a symbolic gesture. It represents the need to be realistic and yet at the time not dogmatic or pendent, and the need for experimental ground that can be activated by people generally and not the specialists only. Critique of the accepted norm with practical action is so much more powerful than an ideologically argued case. Even if the produced alternative is rough and ready it can easily be comprehended and seen as a made and controlled by those who live there. It represents the cradle of an idea. Its beauty is not necessarily that interest of form but a political aesthetic. An appreciation of the range of control and expression possible to the user conveyed through broad based contextual information supplied not only by form and material but also by the environmental and social position in relation to the main culture. These forms may not be the made with techniques which are actually used by an ecologically stable culture but they are worthwhile exploring for the principles inherent with them and as models to activate the creative potential of all people.

To provide alternative house and food production techniques that are ecologically sound.

.....

Characteristics of ecologically sound technology

- are that:-
1. Local resources should be exploited where possible and imported resources kept to a minimum.
 2. The technology should, on the whole be able to be operated by unskilled or semi-skilled labour. Highly skilled operation should be cut to a minimum.
 3. Process open and understandable by all. as regards external economics.
 4. Production costs should be low although the processes involved will probably be more labour intensive.
 5. Low levels of pollution.
 6. Processes of production are enjoyable rather than monotonous or dull.
 7. small community may become practically autonomous.

Different techniques will show these characteristics to a greater or lesser degree for instance it is not intended to completely cut out plastic materials because although they are imported, and pollutive they are also easily used by unskilled labour which can produce effective results with small amounts. Infact it would be contradictory (and with these even) to exclude any particular techniques in these early stages. As gross conditions change individual parts of the system will modify themselves to the image of the whole. At that time substitutes will be found or changes made, but untill this natural selection takes place all possible possibilities are possible.

To use an information system that is relevant
to its network objectives.
.....

I wanted to experiment with the presentation
of information in a system from which it could
be retrieved but in which it is not rigidly held
and which suggests further additions and rear-
rangements by the user and provides leads for
further investigation. If I am to seriously
propose an increase in peoples level of involvement,
commitment and integration with their daily lives
on every level then I should start with what
I am doing. In this case the information media
itself. How could I present the information
in the most responsive manner?

The difficulty lay with the integrating of system
with a media technique, offset litho printing
in this instance. e.g. the machine prints a particular
number (16 in my case) of sides at a time so to
be reasonable economic any colour coding should
be in blocks of that number. Also the folding
and binding is done on machines with limited flexibility
so that splitting sections could only be done
in particular ways. Such limitations put the design
of the information system on a very realistic
production basis.

.....
Information for the book to be obtained
through inter-library loans. It should also include

Colour coding in blocks of pages gives immediate access from a closed state if a colour strip is run along the outer edge.

The colour code running concurrently with a chapter symbol (in shelter) or varying within the colour areas (in food) suggests the general area of information involved. A 'contents' diagram refers to pages by descriptive key words which are grouped under chapter symbols. These key words can reappear with the area symbols in the lower outside corner of the page so that by flicking through a particular page may be quickly found.

This means that rearrangements of the material can be made without too much confusion of content.

The argument implied within such organisation is simultaneous rather than linear and reflects the network ideology discussed previously. Rearrangements produce interaction as different information appears together at random or is intelligently reordered.

The information so constructed is a model of its objectives.

To provide leads for further investigations it was important to concentrate on making as comprehensive a bibliography as possible. It would have to contain full references to each book, giving enough information for the book to be obtained through inter-library loan. It should also include

references to places that have been rich sources of information.

Another reason for laying emphasis on the book being open ended is that——

Much of the information I was collecting has untill recent times been in widespread oral circulation. In this form it is highly responsive to the particular local environment situation that exists at the right time and place without great superfluity. However, institutionalising such information necessarily increases the organisational and bureaucratic barrier between the time, place and need, and the relevant information. This is obviously a bad thing and I tried to avoid this to some extent by organising the information in an ordered but open-ended way, trying to present an information handling system that could be re-ordered and extended by those who came across it rather than being a 'closed book'.

The 'book' I am to display is a broader concept involving the whole process involved and the aesthetic considerations. It is about 100 pages long.

To try to show, to some extent, how cheap and simple the techniques involved in the construction of a reasonably comfortable owner built home and in obtaining the food requirements of the human body can be.

.....
Specific monetary costing would be irrelevant here but I aimed to keep capital costs for any particular project well within a few hundred pounds. It seemed to me that this kind of money is available to almost anyone with the will to work hard save for a few months. In this way I hoped to avoid making suggestions that only applied to the richer classes of our society.

Specific costs are seen as irrelevant because of the great variance that will be found in every particular geographical situation. Most of the techniques could be done for very little money indeed if enough labour and luck in finding the necessary materials can be found. Another reason for not including many particular costings is that of price changes. Fluctuations in market prices are very difficult to foretell and can be very misleading over shorter periods than one year.

The 'cost' I aim to display is a broader concept involving the whole process involved and its aesthetic ramifications. Cost might almost be

interpreted and 'to give some idea of what is involved qualitatively and quantitatively in getting it together.' Again I have made great assumptions here about what is common knowledge (e.g. quality of polythene sheet.) or easily obtained in the high street etc. Such things as notational theory are on the borderline here and I decided to include this particular aspect in the foodbook for completeness. The general angle was to concentrate on information not obtainable from common public sources.

To suggest such a subject is essentially one that must be experienced in practice rather than only academically.

.....

This means, in effect, that rather than constructing the book as one would normally would do with a basically theoretical material; it should be made, rather more, in the style of a manual. Not a manual in the sense of containing full step by step instructions, specifications or detailed costings but in the sense of a guidebook to experience. Relating to actual physical data. Where possible I drew from my own experiences of van living, earth wall buildings inflatable construction, squatting, synthesis of green leaf protein, fishing and so on to colour these areas with a feeling of their practical feasibility within, limited means. The presentation does not aim at any kind of blue print formula A source book for further investigations is more its image. This avoidance of blueprint hypotheses deliberate attempt to give stimulation towards creative exploration rather than a rigid instruction manual.

A blueprint manual implies adherence to authoritative advice whereas what I am to do is to show the range of practical possibilities for basic life supports if more research and practical exploration.

is undertaken.

To give immediate reinforcement to this idea, which is after all still this ^{theo-}retical, it is suggested, within the inside front cover of the scrapbook, that the reader should learn about the structure of the information by physically dismantling the book, re ordering and adding to it himself. In this manner he can immediately get into the action instead of being a passive consumer

of a particular technique, form, material etc.

The cooperative analysis included in the

appendixes is intended to provide a

framework for the reader to work on

the material in a more active way

and to provide a means of

checking the results of the

analysis against the original

material and to provide a

means of checking the

results of the analysis

against the original

material and to provide a

means of checking the

results of the analysis

against the original

material and to provide a

To avoid overt analysis of the different techniques but to present simple factual information upon which the user may build his own.

Implied viewpoints are unavoidable and I do not mean by this that I imagine the books to be ideologically unbiased. The thing to avoid, as I see it, is a premature analysis and choice of a particular technique, form, material etc. The comparative analysis included in the conclusive section comes dangerously near to this but is intended to be used as a framework to aid comparison over a wide range of criteria of a large number of different dwellings. The danger of a premature analysis would be the lack of broad based practical field tested information on any of the types, and anyway if the whole situation to be armed for is one characterised by its diversity perhaps an analysis can only be undertaken for a particular situation in which each of the types has been tried and tested.

The problem here was to provide a catalogue of information so that each part has similar emphasis but also to provide a flow through that is meaningful. This linear ordering must be based

An implied explanation of the nature of
our needs as regards the basic life character
on a no-qualitative characteristic which will
be relevant to most of the information. and our
Simplification of information without loss of
clarity or any qualitative or aesthetic losses
is a difficult technique of precis. The
choice of words and images can at best not work
for all people equally - but especially when
they are concise to the point of being abrupt.
For this reason a popular and light hearted lay-
out helps to off set such curt presentation
and make the whole more comprehensible.

can learn how our needs relate to things
Fascinating survey is that which that which does
insight as to where the most valuable practical
experiences may be gained. From this process
of exploration a solid basis is founded on
which the student may place a clear analysis
of his present dwelling and his projected future
(order house etc).

This will inevitably be a survey of life
style and how it is related to the present needs.
Take by example in the case of a person
experiencing in reality a North American
Indian life and might realize how the traditional
style of this dwelling form is more pure and

An (implied) exploration of the nature of
our needs as regards the basic life supports
.....

When we are talking about life supports and our
needs it is certainly difficult to do so with-
out referring to reality. This is usually done
either by anthropologists who study other races
with distant and foreign environments to their
own, or by architects whose results are purely
in terms of the existant culture and who do not
try to explore new ground.

It is only by exposing ourselves to various
situations in both theory and reality that we
can learn how our needs relate to them.

Theoretical survey is first made that gives some
insight as to where the most valuable practical
experiences may be gained. From this process
of exploration a solid basis is founded on
which the explorer may place a clear analysis
of his present dwelling and his projected future
(dream names etc).

This will inevitably be an analysis of life
style and how well it fulfills the deepest needs.
Thus by examining in theory (and possibly
experiencing in reality) a North American
Indian Tipi you might realise how the spiritual
ethos of this dwelling form is more pure and

powerful than the most luxurious apartment in New York. Now if your criteria for a dwelling include spiritual integration with the environment and your life style. This experience might well make you reconsider what kind of house you need.

You might go and live in a tipi yourself after doing this but it is hardly likely. What is more important is that having experienced another situation you have gained a perspective on your own situation.

Part 4. Process and limitations

- * Collection of Information
- * Choice of Information and categories
- * How to deliver.
- * Preparation of copy and printing.
- * Price/Contracts/Control.

After some months it was possible for me to start writing conditions of requirements and to study the parameters I was to take to limit my research which was already getting so broad as to be out of hand (i.e. too much information too widely spread out). The criteria I developed were concerned with the whole subject being taken as a whole-to-whole, practical and real level. They were that of low cost methods which used materials that were easily available and techniques that most people could master, concentrating on the climatic and geographical conditions in Britain.

Literature Exhibitions and current reports were visited all over the country, gradually and at long intervals, always taking notes.

Other than having a newspaper from the start of search was probably following the lead of the source of information, which would give me

another lead. Often the lead was an indication

Collection of Information

The whole matter of categorising and ordering the information in this area was complex and confusing at first; so I collected information in a loose leaf 'ring binder' so the whole could be re-ordered and individual items relocated with ease. After some months it was possible for me to start writing checklists of requirements and to study the parameters I was to take to limit my research which was already getting so broad as to be out of hand (i.e. too much information too widely spread out). The criteria I developed were concerned with the whole argument being taken on a down-to-earth, practical and real level. They were that of low cost methods which used materials that were easily available and techniques that most people could master, concentrating on the climatic and geographical conditions in Britain.

Libraries Exhibitions and museum experts were visited all over the country, gradually and at length information started taking shape. Rather than having a framework from the start my search was pragmatic following one lead to find source of information, which would give me another lead. Often the dues were on an intuitive

or even psychic level—— a bookshop search, randomly made, revealing something that I did not even know that I was looking for. Much information although I was sure it must exist was not commonly available. Earth building techniques for instance have a wealth of fascinating information which was only revealed after careful search.

My ground was so general that many research information sources would find it difficult to help as unless I had a specific question or reference. Many interesting areas have not been published at all; to my knowledge there is nothing on tree houses and very little on topiary. Both subjects I imagine would raise a great deal of interest but apparently they have not. why? The method of information gathering is almost as important to the argument as the information. The collection was biased by the fact that I was living in a van during this period. I feel it was essential to become part of what I was doing, especially as it was meant to be practically applicable, rather than be an academic outsider pretending to be one of the boys.

to give the reader of the whole story, all complete.

an example of such a thing was recipes, many

excellent recipe books are available and it seemed

Choice of Information and Categories

Information was collected if it seemed anywhere near to the criteria mentioned on the previous pages and filed. It was then studied in a comparative fashion and things that best seemed to fit in with the idea were ring bound. Check lists of materials and techniques made with the help of friends revealed new areas of search. After some time it became clear that certain areas within each category of shelter, food and (the at present defunct) energy were more important in relation to the resources of the British Isles than were others. These were Earth building techniques, wild plant food, and energy from the wind. Currently there is a lot of academic interest in these areas but when I was collecting information there was little, so a special effort was made in each of these areas to dig out all available information, which going on the feedback I have received at present, I did successfully.

Information that was common knowledge but fitted into the pattern was included only if it served to make the sense of the whole essentially complete. An example of such a thing was recipes, many excellent recipe books are available and it seemed

a waste of time to get into this. Aquaculture on the other hand was another kettle of fish and the information here is not at all easily available. So I concentrated on categories that seemed as if they would be more informative. Other categories, although useful, were ignored because they were peripheral to the main area. An instance of this type is living on water which is peripheral to the main area of study and too large to be done briefly. So not coming up with the required detail in time it had to be omitted. The necessary precis of information was stated as the information was collected by way of incisive (!) note-making, sketches, photocopies, of images and cut ups. (A real scrape book in fact.) Finally I ended up categorizing by a rough weight/size/mobility criteria. Things such as caves and squatting caused difficulty here. I decided rather arbitrarily that with caves you just walked in with your clothes on they came in the beginning whilst the whole squatting/urban/legal scene was altogether heavy on it went at the back. Details of ordering were dictated by the limitations of the web's printing process which I have already mentioned.

One of the most fascinating things about a novel and general collection of things is the manner in which one goes about imposing an order upon things

First method I used in shelter was by material and by technique. This had the difficulty of some 'techniques' without characteristic materials (e.g. squatting) and materials with any special technique. (e.g. wood) Food was ordered by activity and functional order in which they are done seasonally. This works well apart from things like air, recipes and other more continuous or abstract things. The next method tried with shelter was by level of technology. Or by asking how primitive? Apart from being very vague in any fine detail, every decision was inescapably controversial. Finally I ended up categorising by a rough weight/bulk/mobility criteria. Things such as caves and squatting caused difficulty here. I decided rather arbitrarily that with caves you just walked in with your clothes so they came in the beginning whilst the whole squatting/urban/legal scene was altogether heavy so it went at the back. Details of ordering were settled by the limitations of the media printing process which I have already mentioned.

Food was finally ordered by way of physiological priority i.e what was primarily essential, and the distribution coming up over priorities, and so on.

This works out with, a knowledge of what to eat first, followed by water through plant food, animal food, food processing, to waste disposal. Anomalies were air of which I had only had 2 sides (anyway is it food?) and some miscellaneous such as buying. These were again taken care of by the sectional balance with each colour print.

Having some extra space I decided to print some more.

And last but not least.

Having some extra space I decided to print some more.

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And last but not least.

Having some extra space I decided to print some more.

How to deliver?

.....

The information coming up seem positive, useful and not easily available. I felt it would be good to get it about in some way. Precedents had been set in similar areas in the U.S with whole Earth catalogue and many other practical books such as Domebook 11 and domecookbook.

Several British magazines print articles of practical use from time to time but it seemed necessary to have a primary concentration of information. Magazine articles drift away and are lost when most needed.

Having come across a good body of knowledge, and put it together as a scrapbook, I showed the 'shelter' part to Bill Butler in Brighton who was very interested and said he would like to publish it, and condition being that I had to produce it to the stage from which it could be printed. It was to be printed as loose-leaf coloured information sheets printed on A1 litho plates; it ended up bound because of the difficulty of handling 128 pages of loose leaf commercially. All the complexities of printing and publishing a book with publishers agreements, legal matters, layout, graphics, platemaking, photographic work,

ink types, paper types, folding, identification,
printers instructions, paste up and so on,
were now learnt or experienced.
I would have preferred to print it myself and
distribute it so that the price could be very
low but there is a limit to what a single person
can achieve with his own direct labour, so I
decided that the disadvantages (not to mention
the contradiction) of commercial delivery were
outweighed by the advantages of getting the information
out quickly before it was obsolete. Bill Butlers
UNICORN press distributes to the avante garde
and youth culture audience so this seemed to be
a reasonable market to be able to act upon any
information that seemed relevant.

colour taken, black illustration etc. So
that the cost would be kept down. Each of
every facility such as a typist, copy reader,
drawing office and so on meant that the style
was primitive but this was o.k. as it fitted
the subject matter and even seemed to encourage
the argument. It certainly wasn't anything
highly technological anyone with a rapidograph
drawing pen and sharp hands could do it. If
they could summon the energy. (You go need a
lot of energy)
The printers were friendly which was good because
they had never seen anything like it before and I
had become an expert in the information field.

Preparation of copy and printing

Some of the design difficulties encountered in the integration of the access/colour coding with the production techniques have already been mentioned. The limitations on what was possible dictated the sectional balance of information between colour sections. Another complication of ordering the information was that the pages needed to be autonomous if they're was to be the possibility of re ordering them and still keeping the sense. The result had to be a compromise which resulted in information being squeezed up or spread out. Copy had to be prepared with the minimum of fancy work (ie photographs to be screened, reductions, resolutions, colour takes, inbook illustration etc.) So that the cost would be kept down. Lack of every facility such as a typist, copy reader, drawing office and so on meant that the style was primitive but this was o.k. as it fitted the subject matter and even seemed to encourage the argument. It certainly wasn't anything highly technological anyone with a rapidograph drawing pen and clean hands could do it. If they could summon the energy. (you do need a lot of energy)

The printers were friendly which was good because they had never seen anything like it before and I had become so involved in the information retrieval

bit that I hadn't even given them any page

numbers. Lots of collaboration helped and we
had few printing errors in shelter and less in
Food.

There were misunderstandings and financial disaster

I decided to draw up a publishing agreement

myself. Research in a local library yielded

most of the legal principles of publishing

agreements, so I drew up a document to give

as the best deal and most control I could get.

This was signed after much discussion and later

changed by Mr. Butler to an agreement that was

fairer to him.

Publication price was of some concern as nobody

was going to finance a book that cost more than their

weekly savings. However I soon learnt that cutting

costs was not an option as the hard business

world of publishing certainly is, and not com-

patible. Mr. Butler has agreed that the series

could grow to become very thorough and comprehensive.

This fits in with my idea of a whole new

series of books that anyone wishing to submit con-

tributions to should be able to do so.

There are already a number of books in the

series and a good working plan is being prepared.

It would be good to see the thing done.

Price/Contracts/Control

Shelter was unicorns first full book publication so there was little business tradition. Fearing gross misunderstandings and financial disaster I decided to draw up a publishing agreement myself. Research in a local library yielded most of the legal principle of publishing agreements, so I draw up a document to give me the best deal and most control I could get. This was signed after much argument and later changed by Mr. Butler to an agreement that was fairer to him.

Publication price was of some concern as nobody was going to dismatle a book that cost them their weeks savings. However I soon learnt that cutting cost unreasonably and surviving in the hard business world as publishing certainly is, are not compatible. Mr. Butler has agreed that the series could grow to become more thorough and comprehensive. This fits into my ideas as a whole very well as it means that anybody wishing to submit reasonable manuscripts on related topics to UNICORN has a good chance of seeing them published. There are already a paperhouse book, an access catalogue, and squatting booklet being prepared. It would be good to see the thing grow.

COMPARATIVE ANALYSIS

CONCLUSION.

- * A Comparative analysis of shelter types.
- * Its possible, its better, lets try it!

ROUGH ASSESSEMENT.

COMPARATIVE ANALYSIS.

AREAS OF ASSESSEMENT (SEE SEPARATE SHEETS FOR DEFINITION/CLARIFICATION OF AREAS)

	MOVER BULKY WEIGHT	STABILITY	RAIN PROOFNESS (HEAT)	SOUND QUALITY	DAMP PROOFNESS	VENTILATION	EASE OF D.I.Y.	USER EXPRESSION POSSIBLE	COST	MATERIAL AVAILABILITY	LIFE SPAN	FIRE RISK	ACTIVITY RANGE	CULTURAL LEGAL POSSIBILITIES	GRAND- FLAGE	CULTURAL SHOCK	DENSITY POSSIBLE	RE- CYCLABLE	HIGH TEC. LOW TEC.
CLOTHES	1	0/5	0/4	0/5	2	0/3	0/5	5	3/5	4	5	A/B	3	0/3	4/5	0/5	0/5	5	
CAVES	A	5	4/4	2/4	0/5	1/5	1/3	5/4	5	5	4	D	0/5	3	2/5	4	3	S	A
SQUATTING	A	1	4	2/3	1/5	1/4	2	4/5	5	4	A	3	4	3	2/4	4	3	S	A
SIMPLE LEAN-TO SHELTER TENT	B	1/3	2/3	1/2	1	2	2	4	5	4	A	3	1	4	2/4	2	2	4	A
RAINSHELLS	B	2	3	1/2	1	2	2	4	5	4	A	3	1	4	2	2	2	4	A
CORACLE	C	2	3	1/2	1	2	2	3	4	5	A/B	3	1/3	4	2	3	2	4	A
CAMPING TENT	C	2/3	3	1/2	2/3	2	2	2/3	3	4	A/B	3	1/3	4	2	3	2	4	A
INFLATABLE SINGLE KIN	D/E	0/3	4	2	2/3	2/3	3/4	2	3	5	A/B	3	1/3	4	2	2	2	4	A
NFLATABLE DOUBLE KIN	D/E	0/3	4	2	2/3	2/3	3/4	2	3	5	A/B	3	1/3	4	2	2	2	4	A
VACUUMATIC	D/E	0/3	4	2	2/3	2/3	3/4	2	3	5	A/B	3	1/3	4	2	2	2	4	A
DOMETENT	D/E	0/3	4	2	2/3	2/3	3/4	2	3	5	A/B	3	1/3	4	2	2	2	4	A
BENDER TENT	D/E	0/3	4	2	2/3	2/3	3/4	2	3	5	A/B	3	1/3	4	2	2	2	4	A
TIPI	D/E	0/3	4	2	2/3	2/3	3/4	2	3	5	A/B	3	1/3	4	2	2	2	4	A
YURT	D/E	0/3	4	2	2/3	2/3	3/4	2	3	5	A/B	3	1/3	4	2	2	2	4	A
PLASTIC FOAM DOME	D/E	0/3	4	2	2/3	2/3	3/4	2	3	5	A/B	3	1/3	4	2	2	2	4	A
VAN	E	3	4	3/4	3	3	1/2	2	5	5	B	3	3/4	3	1/2	4	5	C	
TRAILER CARAVAN	E	3	4	3/4	3	3	1/2	2	5	5	B	3	3/4	3	1/2	4	5	C	
SHED	E	3	4	3/4	3	3	1/2	2	5	5	B	3	3/4	3	1/2	4	5	C	
PAPER PODS	E	3	4	3/4	3	3	1/2	2	5	5	B	3	3/4	3	1/2	4	5	C	
GEODESIC: PLYWME	E	3	4	3/4	3	3	1/2	2	5	5	B	3	3/4	3	1/2	4	5	C	
GEODESIC: ALUMINIUM	E	3	4	3/4	3	3	1/2	2	5	5	B	3	3/4	3	1/2	4	5	C	
GEODESIC: CAR TOPS	E	3	4	3/4	3	3	1/2	2	5	5	B	3	3/4	3	1/2	4	5	C	
LOG CABIN	F	3/4	3/4	3/4	3	2	2/3	2	3	2	B	0	3	4	2	4	1	A	
POLE construction	F	3/4	3/4	3/4	3	2	2/3	2	3	2	B	0	3	4	2	4	1	A	
THATCH	F/G	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
TREE HOUSE	F/G	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
FERROCEMENT	F/G	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
WATTLE & DAUB	G	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
TURF WALLS	G	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
ADOBE BRICKS	G	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
PISE DE TERRE	G	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
STONE CROFT	G	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
EARTH & STONE	G	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
CONCRETE SLAB	G/H	3	4	3/4	3	2/3	3/4	2	3	2	B	0	3	4	2	4	1	A	
DUGOUT	H	4	4	4	4	4	4	4	4	4	D	5	5	5	5	5	5	A	
CAVE	H	4	4	4	4	4	4	4	4	4	D	5	5	5	5	5	5	A	
SEMI D. 11" BRICK overage council quality 18 STOREY RC FLATS.	G/H	4	4	4	4	4	4	4	4	4	D	5	5	5	5	5	5	A	



Within the aims of the manual 0="poor" 5="excellent"
A-Z grades have no qualitative grading connotation.

COMPARATIVE ANALYSIS

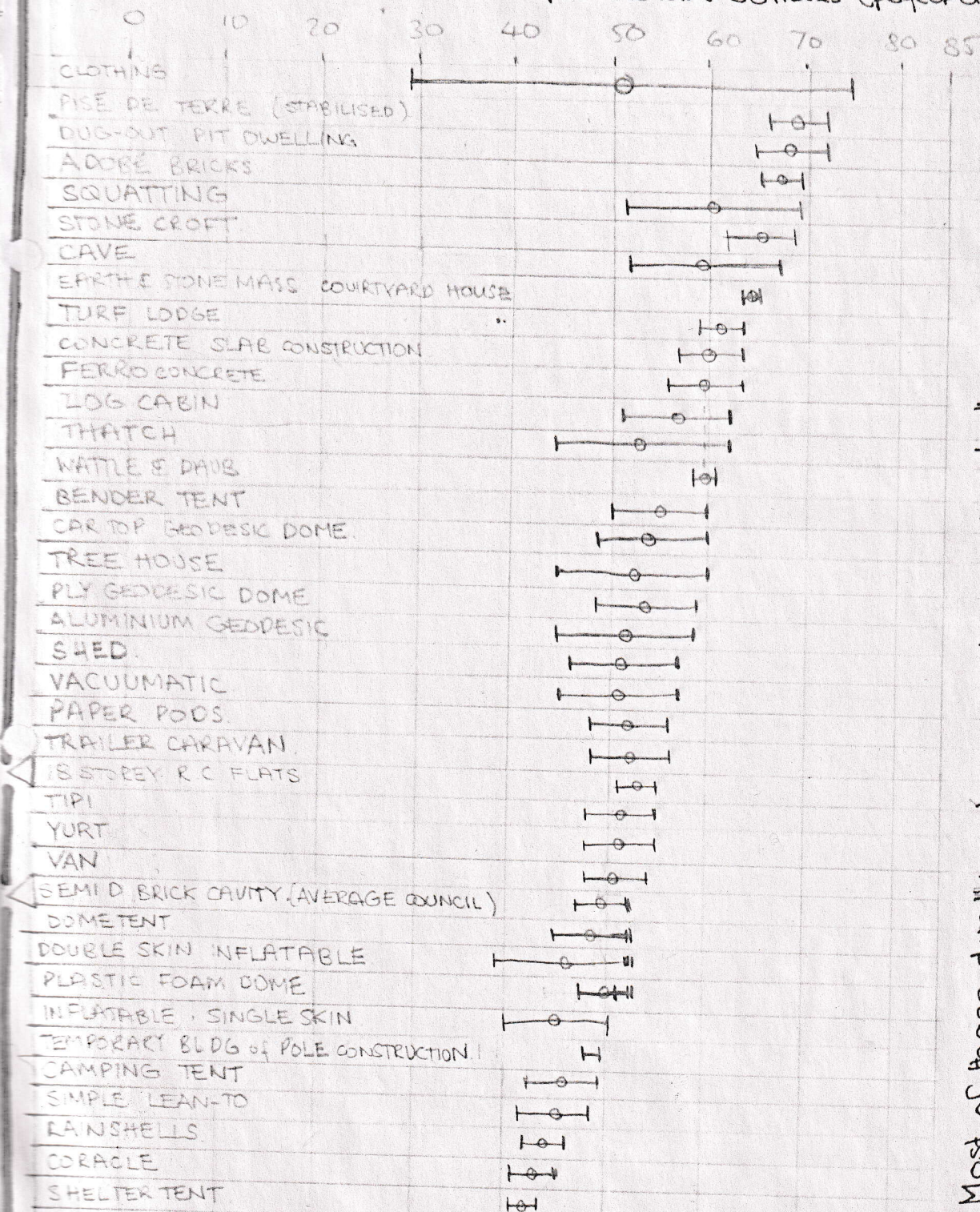
COMPARATIVE ANALYSIS

ROUGH ASSESSEMENT:

COMPARATIVE ANALYSIS

compared in 17 ways: structural stability, rain proofness, heat insulation, sound quality, damp proofness, ventilation, ease of DIY, user expression possible, cost, material availability, fire risk, Activities possible within, cultural/legal feasibility, camouflage, culture shock, density possible, recyclability.

On 17 counts @ 5 possible marks = possible total 85 marks (perfect dwelling?)



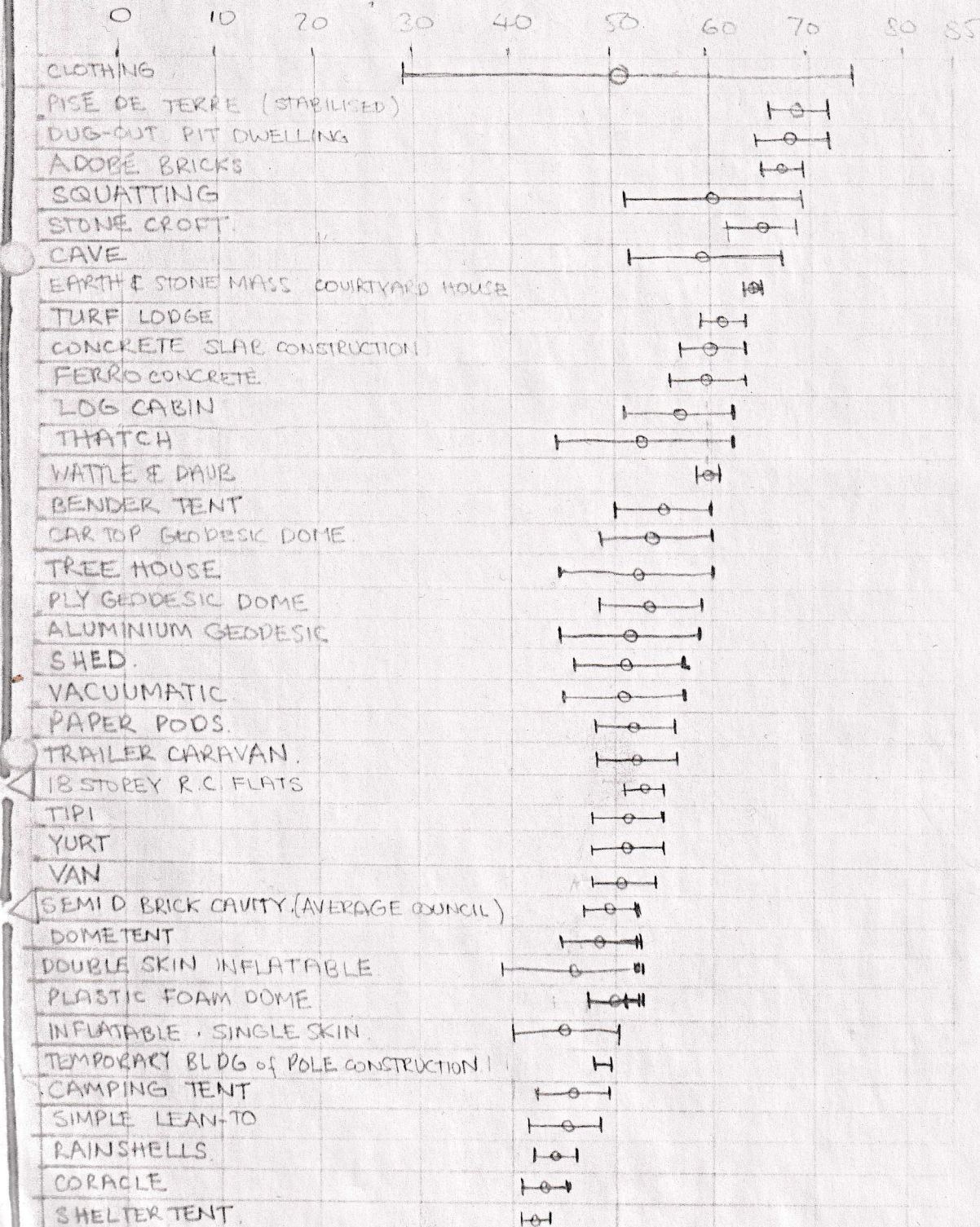
Note: Most of these dwellings have properties peculiar to themselves that would set them above the others; when those properties were required. eg. use of geodesic geometry by U.S.A. hippies as a symbol of earth peoples rebirth or of the lightweight tent by the vikings.

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COMPARATIVE ANALYSIS

DEFINITION AND CLARIFICATION OF AREAS OF ASSESSEMENT

within the aims of this manual 0= poor 5= excellent

A - Z grades have no qualitative meaning.

COMMENT

An interesting anomaly here is that although houses of earth, stone, log, are very heavy the materials are found in situ; so that if they can be erected with reasonable speed/ease (e.g. sod house + lean-to) they may be regarded as weightless or the weight of the imported tools only; taking this into account it is the light weight high tec. items that are the heaviest in time/mass/energy.?

Stability will of course depend on the skill and experience of the builder to a great extent; but the monolithic structure of ferrocement is bound to be much more stable than a tree house of sticks.

Again there will be much variation with the skill and experience of the builder. However plastic sheet ~~technology~~ makes it much simpler to ~~rainproof~~ primitive structures. Component buildings (as opposed to monolithic) are more likely to have water leakage. Geodesics need special care in sealing as roof and walls are one surface and the joints between triangles are susceptible to moving, then cracking and then leaking. A well thatched adobe hut will be much better to live in than a badly sealed and insulated space age dome. Heat insulation is best achieved by the formation of air gaps or cellularly trapped air. e.g. a camping tent will be twice as warm with a good flysheet. Thick fibrous materials will also be warm e.g. In the felt covered yurt thick rugs are hung on the interior walls. Another method of increasing both heat and sound insulation is by the use of thick walls e.g. the dug out and pise de terre dwellings.

GRADE

Move? bulk/weight no roads
A = weightless
B = pocket
C = back (30 - 60lbs) needs roads
D = can be carried
E = car, van or truck
F = lorry's
G = has to be demolished immobile
H = immobile

Stability

0 = likely to fall down blow away
1 = unstable
2 = Temporarily stable
3 = reasonably stable
4 = very stable
5 = never come down indestructable

Rain proofness

0 = none wet
1 = small part protection
2 = leaking
3 = occasional leaks
4 = rarely leaks dry
5 = never leaks

Heat Insulation

0 = none cold + much fuel
1 = large fire needed
2 = fire needed
3 =
4 = lamp will heat warm
5 = body heat enough. + no fuel

Sound insulation depends on mass and/or on discontinuity of structure along which sound might travel. On this count a massive wall of earth sods might be best. Sound Quality is more than just insulation; the form and rigidity of the house will give either pleasant or harsh acoustics. An uninsulated steel dome would sound 'tinney' whilst a bender tent might absorb the reverberations.

Damp depends greatly upon site, design and building of correct damp proof courses. However a building shell that rests directly on the ground will need much greater care in the choice of a dry site to keep from being damp than a dwelling that is built away from the ground c.f. tipi and van.

The necessary adjustable openings must be supplied before there can be good ventilation; However building forms such as the domes, yurt, tipi, have forms which encourage good air circulation. The single skin pneumatic uses blow air to maintain its stability. The pit dwelling with its long entrance passage has a designed in heat exchange (dug-out dwellings with the high insulation of massive walls may be kept warm and fresh with the minimum of heat.)

About the greatest satisfaction possible from expressive participation in a house is to direct the construction of it your self, but expression is also possible on the 'finished product' by painting, changing, adding bits, opening, destroying, climbing, lighting, decorating, changing the form etc. the more the better (?)

Cost is a difficult factor to accurately assess when materials are being scrounged, work is being done yourself, tools are borrowed, local materials are used. The actual money costs can be much lower than a whole economic costing taking into account labour time, energy, used, transport, new materials, etc. The cost estimate here is of actual money cost.

SOUND QUALITY

- 0 = no insulation + reverb ear trouble
- 1 = slight insulation
- 2 =
- 3 = reasonable
- 4 = good insulation
- 5 = good insulation + good sound quality

DAMP-PROOF

- 0 = none Rheumatism
- 1 = poor
- 2 =
- 3 = reasonable
- 4 = good dry
- 5 = no damp at all

VENTILATION

- 0 = none suffocation
- 1 = a little rather draughty
- 2 = ventilation not easy to control aches
- 3 = reasonable fresh air
- 4 = good v. little draught
- 5 = perfect no draughts

Do it yourself easy?

- 0 = made and erected by experts guaranteed quick
- 1 = erected by anyone
- 2 = workshop some skill
- 3 = good tool set
- 4 = simple tools common sense control satisfaction
- 5 = easy for anyone

USER EXPRESSION POSSIBLE

- 0 = unimpressionable impersonal
- 1 = small things done
- 2 = larger but limited
- 3 = reasonable
- 4 = freely 'plastic'
- 5 = stimulates complete human involvement.

COST

- 0 = over £200 privileged
- 1 = 75 - 200 (or deprived)
- 2 = 30 - 75
- 3 = 10 - 30
- 4 = under 10
- 5 = free anyone

Note: costs for 1/2 person 2/3 room

dwelling i.e minimum consistent with reasonable shelter.

If people can't get a specified material easily; they'll build something else with materials that are available. (realism!)

Life span is an important factor in popular housing where return on capital is all important. It does not concern us here: accept perhaps as a real security concept more important to some people than others.

Certain dwellings are restricted in size by their innate nature. Particular examples are the Yurt, the tipi, the Tree House. Others are restricted by legal consideration; for example the van and the shed.

This grading is concerned with how easy will it be to build than to live in. Often it might be OK. but only in particular conditions. Outlandish or unusual dwellings will often not be acceptable to the nearby people.

Whether or not you can be seen/ or at least be obvious) is of practical importance if, as suggested above, your dwelling style conflicts with the cultural norm. ie if it can't be seen your less likely to be roped in.

Material Availability

- 0 = impossible to get one only
- 1 = Obtainable with difficulty
- 2 = Obtainable in a few sites
- 3 = obtainable in many places
- 4 = obtainable most places
- 5 = easily obtainable in all localities. local store

Life Span

- A = under one year Low security value
- B = 1 - 5 years.
- C = 5-50 years
- D = over 50 years. high Security value

Fire risk

- 0 = bad risk: danger Burn
- 3 = slight risk (acceptable)
- 5 = no risk at all Not burn

Activity Range.

- 0 = quick shelter only quick individual shelter
- 1 = sleeping
- 2 = sleeping, eating, reading,
- 3 = + handicrafts, games
- 4 = + several activity areas.
- 5 = + big meals, partys, communes etc. permanent communal shelter

'Camouflage'

- 0 = sticks out like a sore thumb. now they see it
- 1 = does not blend with surroundings
- 2 = blends well
- 3 = difficult to see.
- 4 = difficult to find now they don't.
- 5 = impossible to find.

→ Cultural/Legal Hassle

- 0 = illegal or culturally unacceptable illegal
- 1 = can be illegal : difficult regulations / byz-laws
- 2 = legal but difficult
- 3 = Culturally unpopular
- 4 = subtle deviance
- 5 = straight forward. popular

How much will an ordinary, typical British life style have to change using a particular dwelling. This is a question of accessibility. Large changes in short times can only be made by a small amount of people (?)

Through its properties of close packing, privacy, sound insulation materials, etc. Will the dwelling be suitable for high densities as well as more isolated places? The important concept here is privacy. People insulation. If structure will operate in a high density situation as well as alone it gives it broader scope and thus it is more valuable as a dwelling form.

Many so called primitive forms would benefit greatly from high technology services. e.g. nomads with short wave radio. Our housing needs have'nt changed much since primitive times (?) that's why many primitive technologies score highly. The possibilities of communication, speed and area of action have been opened up by modern technology - low tec. shelter shell with high tec. service = good modern house(?) This is a vague and dangerously over simplified reply to such an important concept of the planet/its resources/ our future. It is felt that some assessment however crude should be attempted.

Culture shock.

- 0 = impossible to adjust
- 1 = just possible to adjust
- 2 = big change
- 3 = reasonable change
- 4 = slight change
- 5 = no change.

"we couldn't possibly live like that"

We're moving tomorrow.

Density Possible

- 0 = completely isolated
- 1 = nearby neighbour
- 2 = small group o.k.
- 3 = village
- 4 = town
- 5 = city.

lonely & wild.

Urban claustrophobia

High Tec/Low Tec.

- A = stone ironage
- B = early industrial
- C = recent industrial (chemical)
- D = Now (electron tec.)

primitive

modern

Recycle

- 0 = cannot be reused/recycled.
- 1 = some parts recycable
- 2 = most parts recycable (with difficulty)
- 3 = most parts recycable (easily)
- 4 = whole recycable
- 5 = easily and completely reusable/recycable.

waste/pollution

earthship care.

CONCLUSIONS? (surely not)

Even taking into account the considerable disadvantages of the inaccuracy of this rough comparative assessment, it is interesting to see the high score of primitive technologies when this sort of broad based assessment is made. The first three dwellings are of earth; ~~the~~ the next three dwellings are of stone.

The Actual weight of these materials is not apparent when it is realised that they are usually on site, as stated earlier, needing only the time and energy of the future occupant with simple tools, to fashion.* The advantage of massive walls in stability, insulation, life-span etc. have yet to be equalled by a popularly used and priced lightweight material. A little lower, after another earth material in the turf hut, there comes concrete and ferro concrete the first products of a more sophisticated technology. They score well on their plasticity, impermeability and strength but fall down from being best on cost and recyclability. Next come the warm wood materials, logs, thatch, wattle, bender tent, tree house, ply dome; in a position that seems to suit their status as medium weight organically derived materials. It is interesting to note that wattle and daub, a primitive equivalent of ferrocement, has an equal mean score to ferrocement!

Within this wood group is the first all metal car top dome, which score consistently; coming down a little on price (mainly the cost of insulation, bolts and sealant) and lack of user expression with the rigid geometry.

* Please note: time and energy of erection is not scored but taken to be within reason. e.g. during a summer.

Some people would deny a limitation here, welcoming the geometry as an overall discipline.

Further down the list comes the other Aluminium geodesic (high cost) next to the garden shed these being just ahead of the first high tec. low cost item the vacuumatic, this scores low on ease of D.I.Y. water and damp proofing, user expression (great in the area of general form only) and camouflage. All of these points could well be contested and in a few years when it is more developed and evacuating pumps valves etc are more easily available; then it may deserve a place near the top of the list.

Paper pods come after vacuumatic but this is really too vague an area of dwelling to assess seriously. Scores low on sound insulation stability and lifespan. Not seriously disadvantaged. Specific sophisticated examples might overcome these and get a much higher rating.

The trailer caravan, 18 storey R.C. flats, the Tipi, the Yurt the van and the semi Detached are next. Interesting as all (except the flats and semi D which are put in as a comparative control) are nomadic dwellings. The tipi is a dwelling of perfection. Every detail of its structure is spiritually integrated with the ritual of Indian life. A fine balance of comfort/mobility with regard to the resources at hand. The steppes from which the Yurts come have very cold winters. The felt covered shape is warm its dome shape hugging close to the ground. The van is the ultimate in living mobile in a country with a good road system.

CONCLUSIONS? concluded.

The trailer caravan is capable of being equal to any modern home losing only manoeuvrability and camouflage to the small van: Although of course its towing vehicle may be used separately.

The flats and semi detached house didn't do very well, but then as we all know the housing situation is bad. They came down heavily on cost, material availability, user expression, ease of D.I.Y. fitting into the landscapes and in fact only just beat the tents.

The dome-tent, double skin inflatable single skin inflatable and camping tent don't come up to the environmental quality of heavier dwellings; but their properties of temporaryness, lightness, speed of erection are special but didn't score as they are needed in particular rather than general circumstances.

It is possible to live 6 - 8 months of the year in a tent in Britain.

The inflatables also have properties of their own that are incomparable. The lack of hard edges and softness of surfaces make it the most tactile and sexy building type.

Within this group was the plastic foam dome which I rate much higher personally. It scored loudly on cost, availability, ease of D.I.Y. recyclability, camouflage. In future years when the spray gear is easier to get and to handle and the material cheap I feel this could be a major dwelling construction method along with vacuumatic and paper. It can be sprayed to take many amazing forms its insulation value is very high, and its super lightness saves on foundation costs.

Also surrounded by the tent group is the temporary building of pole construction - this is really crude with old telegraph poles, straw bales and plastic sheeting but scoring well on insulation, material availability ease of construction cost and recyclability.

After this and lastly came the delightful basic shelters: - simple lean to of boughs plastic rain shells, the coracle and the shelter tent which is nothing more than an impermeable sheet of material. Even so it is only ten points below the semi D with nearly half marks(!)

This kind of rough comparison can hardly be used to prove anything very useful. However it is useful in itself in providing a framework by which an individual can help himself to rationally decide on what shelter is suitable for his own use by altering the emphasis and priorities of the criteria possibly even adding more criteria of his own.

Food production techniques can not be compared in this manner a variety of possibilities arise from the geographical conditions of your locality. Choose one that suits your own tastes and dietary needs.

Please note: 'delight' is not scored.

Conclusion

Whatever one thinks of the style and functional performance of the houses and food we normally consume the processes involved are staggeringly inefficient when one looks at the energy/mass that have been used to produce them. When people stopped making their own houses (and producing their own food) as a cultural norm, the idea was that industry could construct houses for them more efficiently and with better performance leaving them time to do other things. What happened was that the investors created one of their many-layered industrial structures from which the cream of profit could be removed at every stage.

An average modern house uses 200 tons of materials transported often hundreds of miles. Raw materials move through a vast energy consuming cycle the only human argument for which is that it gives more people work. Presumably so that they can afford one of the expensive end products, over which they have little say! A similar tale may be told regarding our food.

There are in almost every locality resources naturally available which with a minimum of imported material can be made to produce at the highest quality we deserve, all our basic life supports using simple techniques and tools, available to all people.

Cost of such systems in terms of 'money' is very low.

Satisfaction is complete

(disadvantage - no profit for the investors?)

The buildings that are nowadays highly prized for their aesthetic and symbolic appeal are the picturesque whitewashed country cottages. The mystification of building techniques is so complete that many people do not know that they were built over a summer in a workers spare time by unskilled labour with mud from the actual site.

With what we know today we could do much better.

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S. J. J.

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The End